

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
11 December 2003 (11.12.2003)

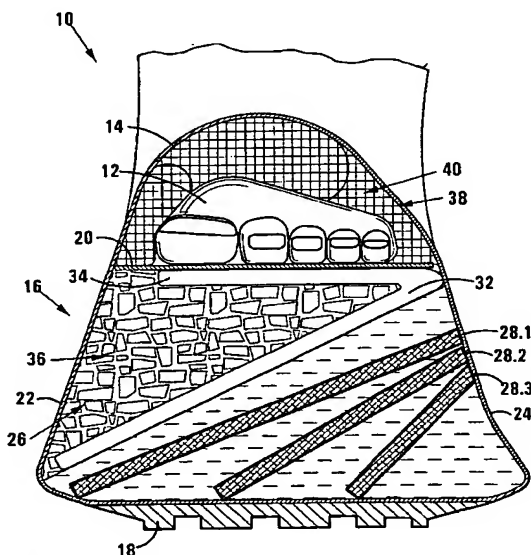
PCT

(10) International Publication Number
WO 2003/101234 A3

- (51) International Patent Classification⁷: **A43B 3/00**
- (21) International Application Number:
PCT/IB2003/002032
- (22) International Filing Date: 27 May 2003 (27.05.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
2002/4368 31 May 2002 (31.05.2002) ZA
2002/4480 5 June 2002 (05.06.2002) ZA
2003/0684 24 January 2003 (24.01.2003) ZA
- (71) Applicant (for all designated States except US): **CSIR**
[ZA/ZA]; Scientia, 0002 Pretoria (ZA).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **JOYNT, Vernon, Peregrin** [ZA/ZA]; 33 Golf Street, Waterkloof, 0181 Pretoria (ZA). **VAN DYK, Jacobus, Theodorus** [ZA/ZA]; No. 23, Casa Bianca, Brunia Oord, 0017 Doornpoort (ZA).
- (74) Agent: **FERREIRA, Stephanus, Cornelius**; Adams & Adams, Adams & Adams Place, 1140 Prospect Street, Hatfield, P.O. Box 1014, 0001 Pretoria (ZA).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report:
21 May 2004

[Continued on next page]

(54) Title: PROTECTIVE FOOTWEAR



(57) Abstract: An article of protective footwear in the form of a boot (10) protects a foot (12) of a user against effects of a landmine explosion. A composite sole volume (16) between an outer sole (18) and an inner sole (20) incorporates shock wave guide elements (28) of a material having a high acoustic speed, in the form of glass strips which extend spatially from the outer sole (18) obliquely laterally outwardly to a side of the sole volume. The strips (28) are surrounded by liquid. Above the strips (28) and below the inner sole (20), there is provided a barrier of material having a low acoustic speed, e.g. vermiculite. Surrounding the foot (12), opposed to the sole of the foot, there is provided a fluid having a high acoustic speed, e.g. glycerin to ensure effective transfer of any shock wave component entering the foot, away from the foot.

WO 2003/101234 A3

WO 03/101234 A3



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference F17326 SCF	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/IB 03/02032	International filing date (<i>day/month/year</i>) 27 May 2003 (27.05.2003)	(Earliest) Priority Date (<i>day/month/year</i>) 31 May 2002 (31.05.2002)
Applicant CSIR		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.: 1

☒ as suggested by the applicant.

☐ None of the figures.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

INTERNATIONAL SEARCH REPORT

International Classification No.
PCT/IB 03/02032-0

CLASSIFICATION OF SUBJECT MATTER

IPC⁷: A43B 3/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: A43B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EpoDoc WPI PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/18479 A1 (COMMONWEALTH OF AUSTRALIA) 15 March 2001 (15.03.01) <i>the whole document.</i>	1-31
X	US 3243898 A (LEWIS) 5 April 1966 (05.04.66) <i>the whole document.</i>	1-31
X	GB 2191384 A (SECRETARY OF DEFENCE UK) 16 December 1987 (16.12.87) <i>the whole document.</i>	1-31

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

„A“ document defining the general state of the art which is not considered to be of particular relevance

„E“ earlier application or patent but published on or after the international filing date

„L“ document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

„O“ document referring to an oral disclosure, use, exhibition or other means

„P“ document published prior to the international filing date but later than the priority date claimed

„T“ later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

„X“ document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

„Y“ document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

„&“ document member of the same patent family

Date of the actual completion of the international search

27 January 2004 (27.01.2004)

Date of mailing of the international search report

11 March 2004 (11.03.2004)

Name and mailing address of the ISA/AT

Austrian Patent Office

Dresdner Straße 87, A-1200 Vienna

Facsimile No. 1/53424/535

Authorized officer

LOSENICKY G.

Telephone No. 1/53424/372

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/JP03/02032-0

Patent document cited in search report			Publication date	Patent family member(s)	Publication date
GB	A	2191384	1987-12-16	none	
US	A	3243898	1966-04-05	none	
WO	A	118479		none	